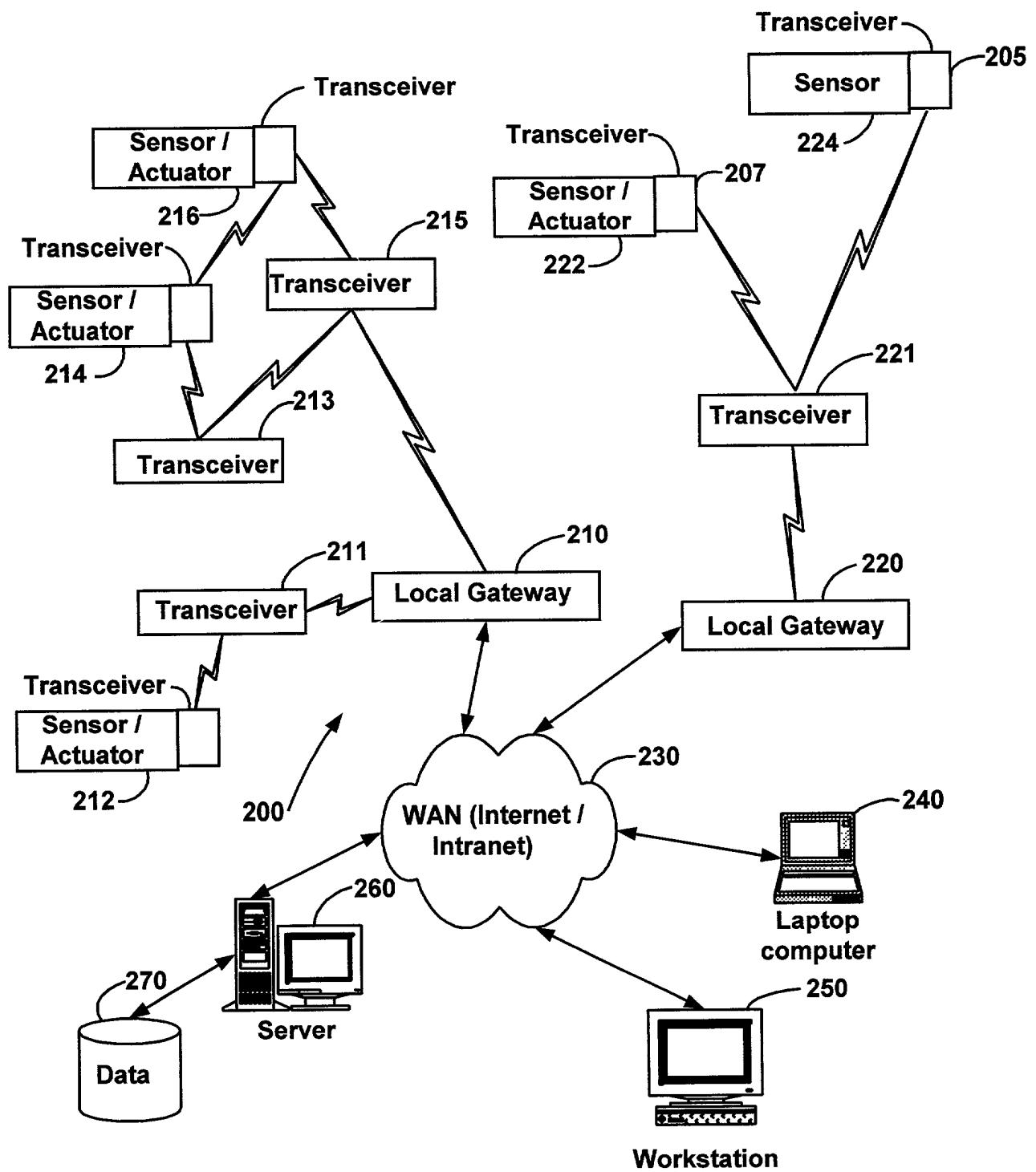
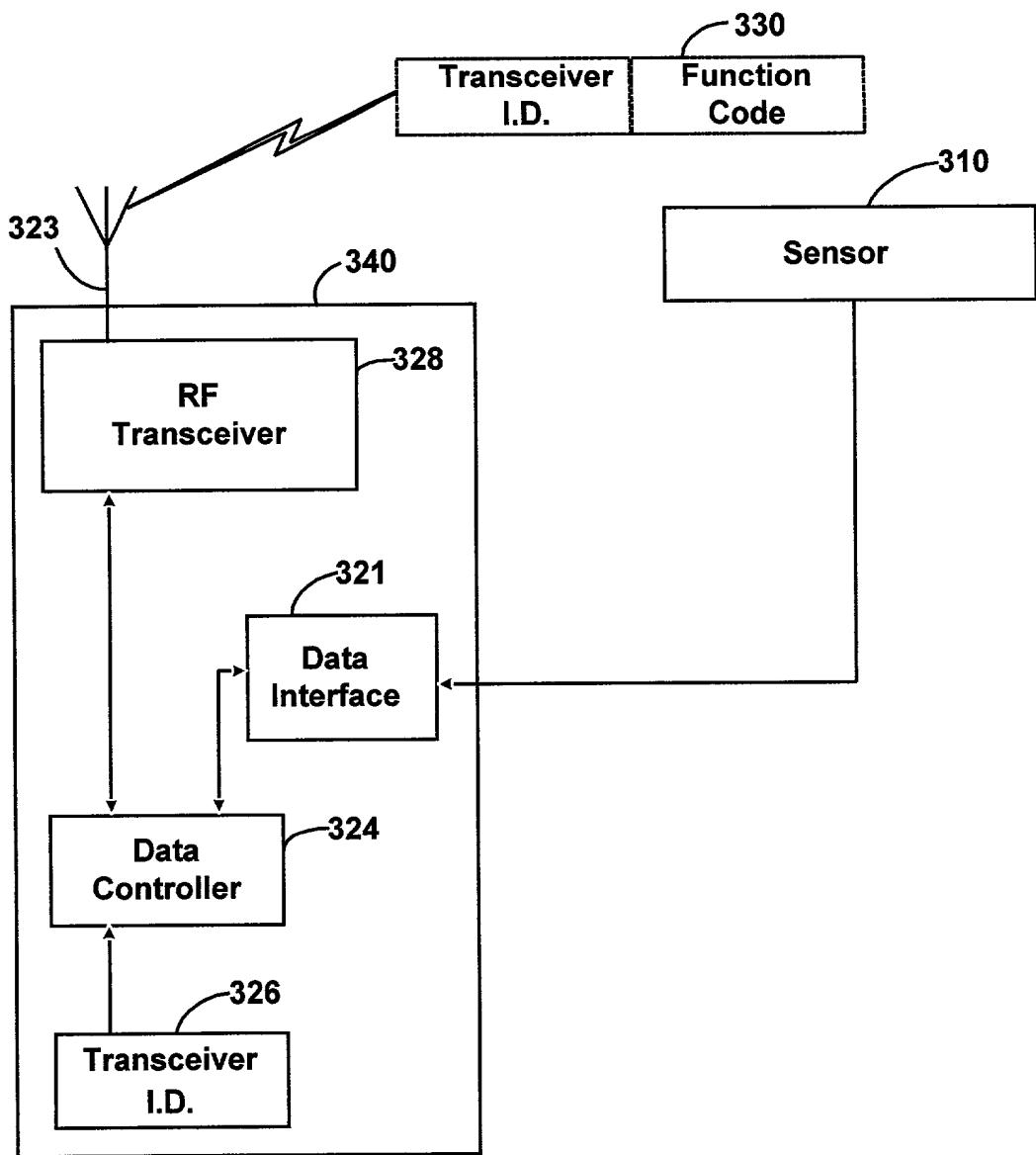


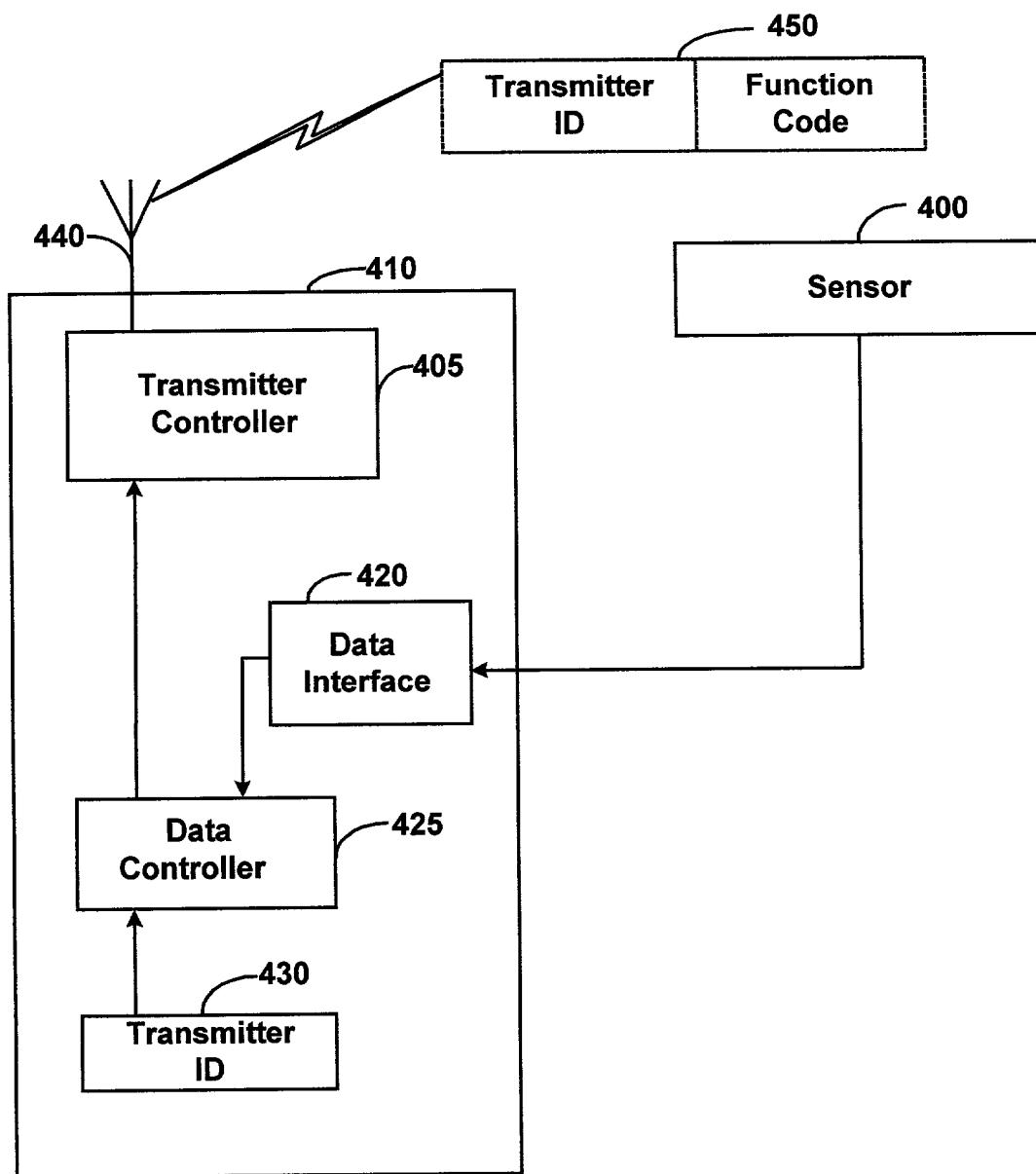
**FIG. 1**  
**(PRIOR ART)**



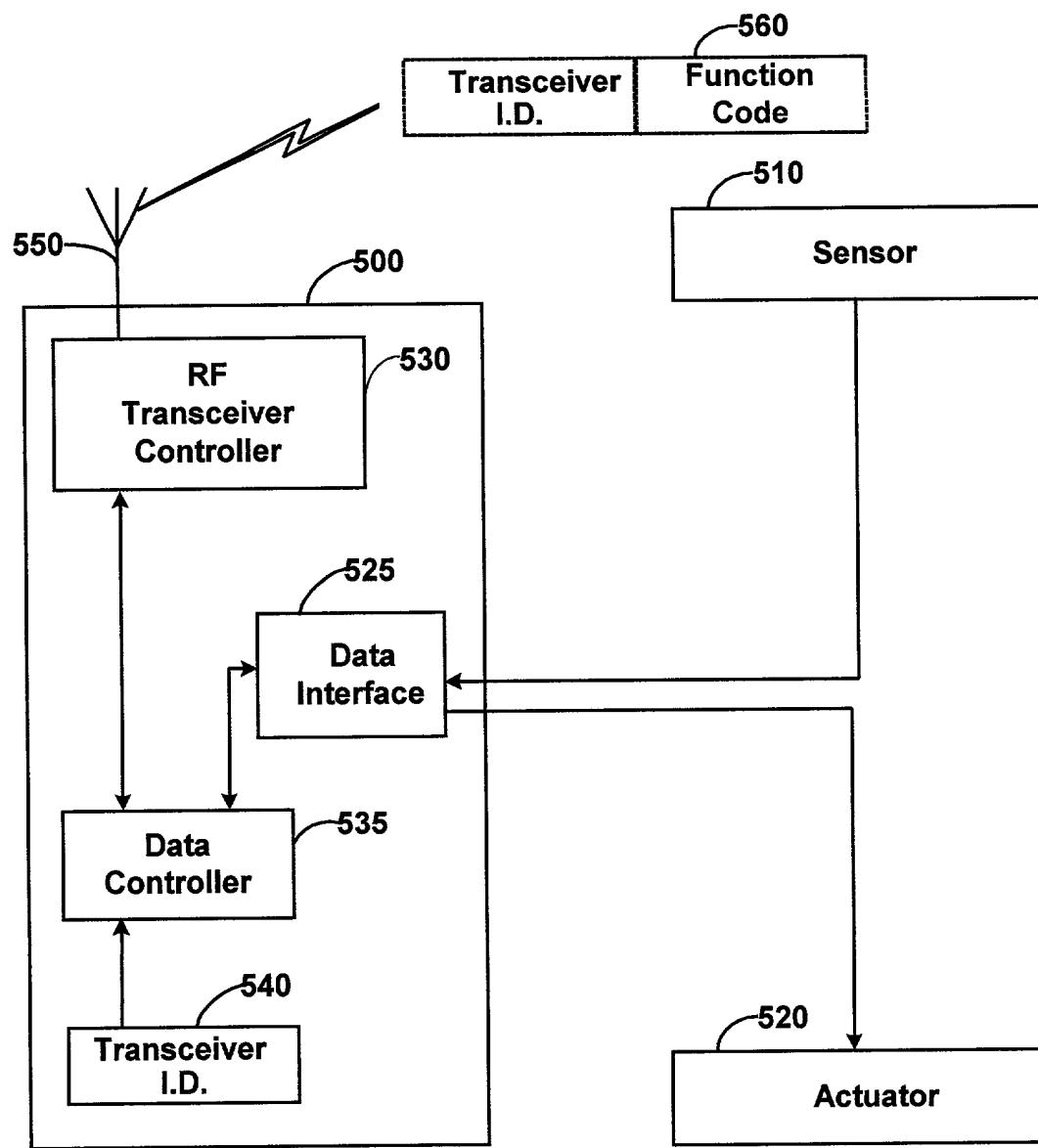
**FIG. 2**



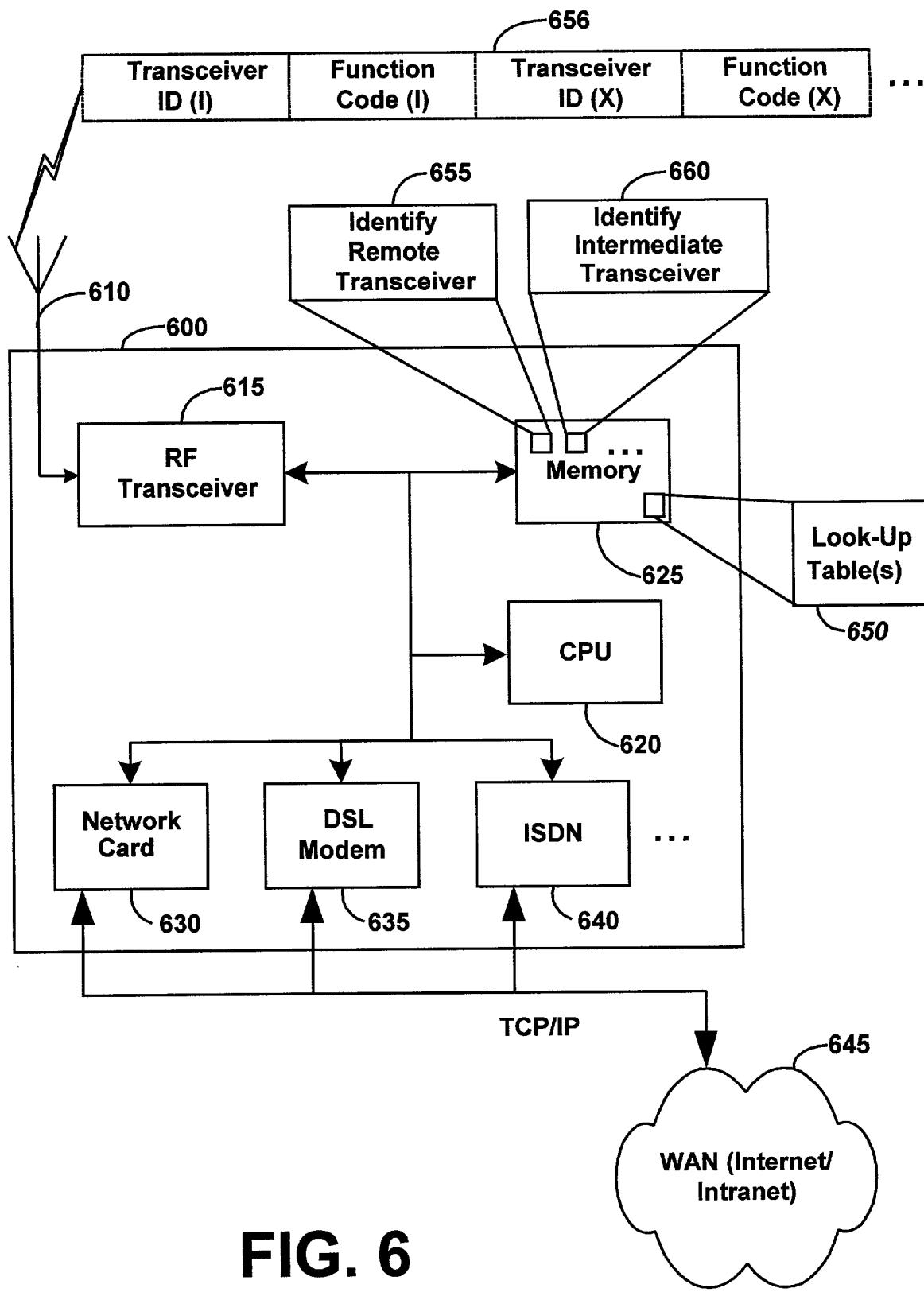
**FIG. 3**



**FIG. 4**

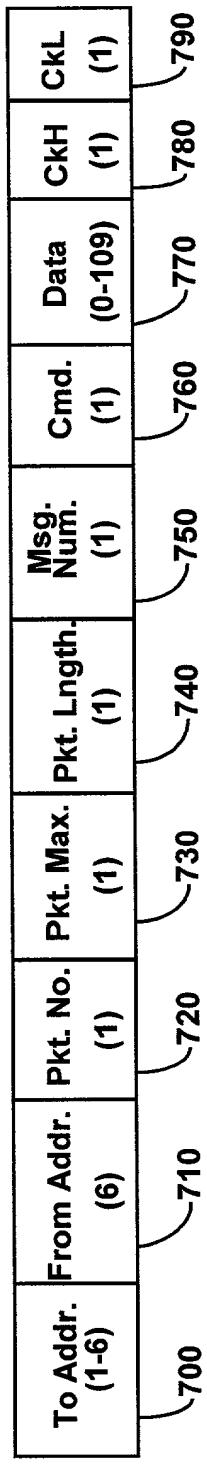


**FIG. 5**



**FIG. 6**

# FIG. 7 Message Structure



# FIG. 8

<u>"To Address"</u>	<u>Byte Assignment:</u>
<b>MSB - Byte 1</b> Device Type	<b>FF-F0 (16) - Broadcast All Devices (1 Byte Address)</b> <b>EF-1F (224) - Device Type Base (2 to 6 Byte Address)</b> <b>0F-00 (16) - Personal Transceiver Identification (6 Byte Address)</b>
<b>Byte 2</b> Mfg./Owner ID	<b>FF-F0 (16) - Broadcast all Devices (Byte 1 Type)</b> <b>(2 Byte Broadcast Address)</b> <b>EF-00 (240) - Mfg./Owner Code Identification Number</b>
<b>Byte 3</b> Mfg./Owner Extension ID	<b>FF-F0 (16) - Broadcast all Devices (Byte 1 &amp; Byte 2 Type)</b> <b>(3 Byte Broadcast Address)</b> <b>EF-00 (240) - Device Type/Mfg./Owner Code ID Number</b>
<b>Byte 4</b>	<b>FF-F0 (16) - Broadcast all Devices (Byte 1 &amp; Byte 2 Type)</b> <b>(4 Byte Broadcast Address)</b> <b>EF-00 (240) - ID Number</b>
<b>Byte 5</b>	<b>(FF-00) 256 - Identification Number</b>
<b>Byte 6</b>	<b>(FF-00) 256 - Identification Number</b>

## Sample Messages

**Central Server to Personal Transceiver - Broadcast Message - FF (Emergency)**

Byte Count = 12

To Addr. (FF)	From Addr. (12345678)	Pkt. No. (00)	Pkt. Max. (00)	Pkt. Lngth. (0C)	Cmd. (FF)	CkH (02)	CkL (9E)
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**First Transceiver to Repeater (Transceiver)  
Broadcast Message - FF (Emergency)**

Byte Count = 17

To Addr. (F0)	From Addr. (12345678)	Pkt. No. (00)	Pkt. Max. (00)	Pkt. Lngth. (11)	Cmd. (FF)		CkH (03)	CkL (A0)
Data (A000123456)								

**Note:** Additional Transceiver Re-Broadcasts do not change the message.  
The messages are simply received and re-broadcast.

**Message to Device "A0" From Device "E1" Command - "08" (Respond to PING)  
Response will reverse "To" and "From" Addresses**

Byte Count = 17

To Addr. (A012345678)	From Addr. (E112345678)	P # (00)	P Max. (00)	P Lngth. (11)	Cmd. (08)	Data (A5)	CkH (04)	CkL (67)
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# FIG. 9